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## Grade 7: Math

### 2.4 Integers- Variables

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We would like to solve the following problems.

1. Seven more than the number is 32.
2. Fifteen less than the number is 8.
3. Fifty take away the number is 45.
4. Thirty five take away the number is 47.
5. Six times the number is thirty.
6. Twice the number is sixty four.
7. Eleven times the number is forty four.
8. Half the number is twenty two.
9. One tenth of the number is 15.
10. Seven times the number is ninety one.

Although we can use intuition to solve problems like these, we wish to develop a systematic approach towards solving such problems.

- What is a variable?

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- Some obvious questions.

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- Give an example of a numerical expression.

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- Example of an expression with a variable.

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- Advantage:

- Write all situations on page 1 using variables.
- Write the following expressions in words.

1.  $x + 7$  \_\_\_\_\_

2.  $x + 8$  \_\_\_\_\_

3.  $x - 7$  \_\_\_\_\_

4.  $x - 10$  \_\_\_\_\_

5.  $7x$  \_\_\_\_\_

6.  $2x$  \_\_\_\_\_

7.  $\frac{x}{5}$  \_\_\_\_\_

8.  $2f + 12$  \_\_\_\_\_

9.  $1 - p$  \_\_\_\_\_

10.  $3 - 2u$  \_\_\_\_\_

11. Apples are sold at \$3/kg.

- What is the cost of buying 5 Kg of apples?
- What is the cost of buying  $n$  Kg of apples?

12. The cost of parking a car is \$25 per hour.

- What is the cost of parking the car for 2 hours?
- What is the cost of parking the car for  $t$  hours?

- Homework: Page 380 #1-11